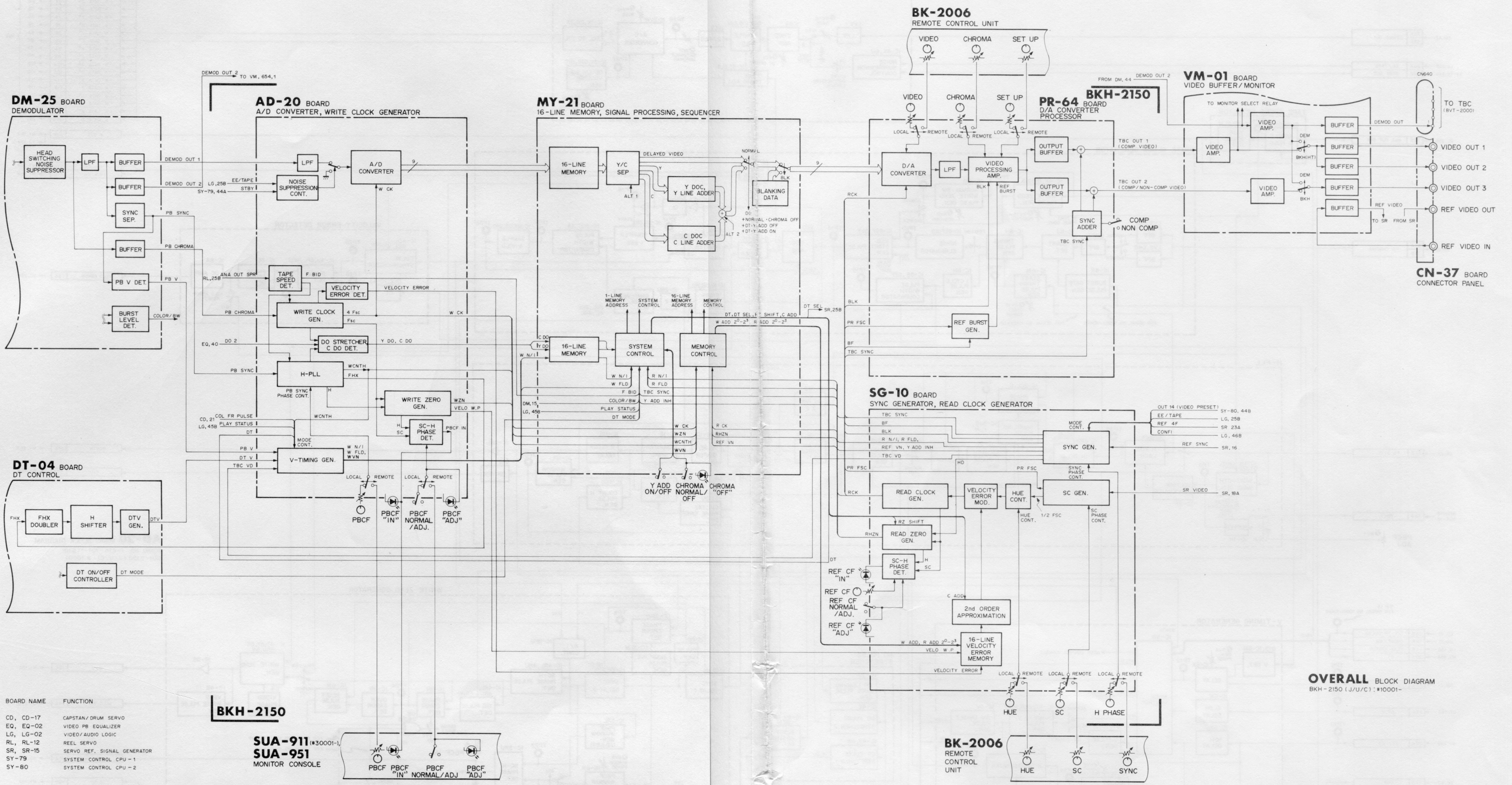
SECTION A
BLOCK DIAGRAMS

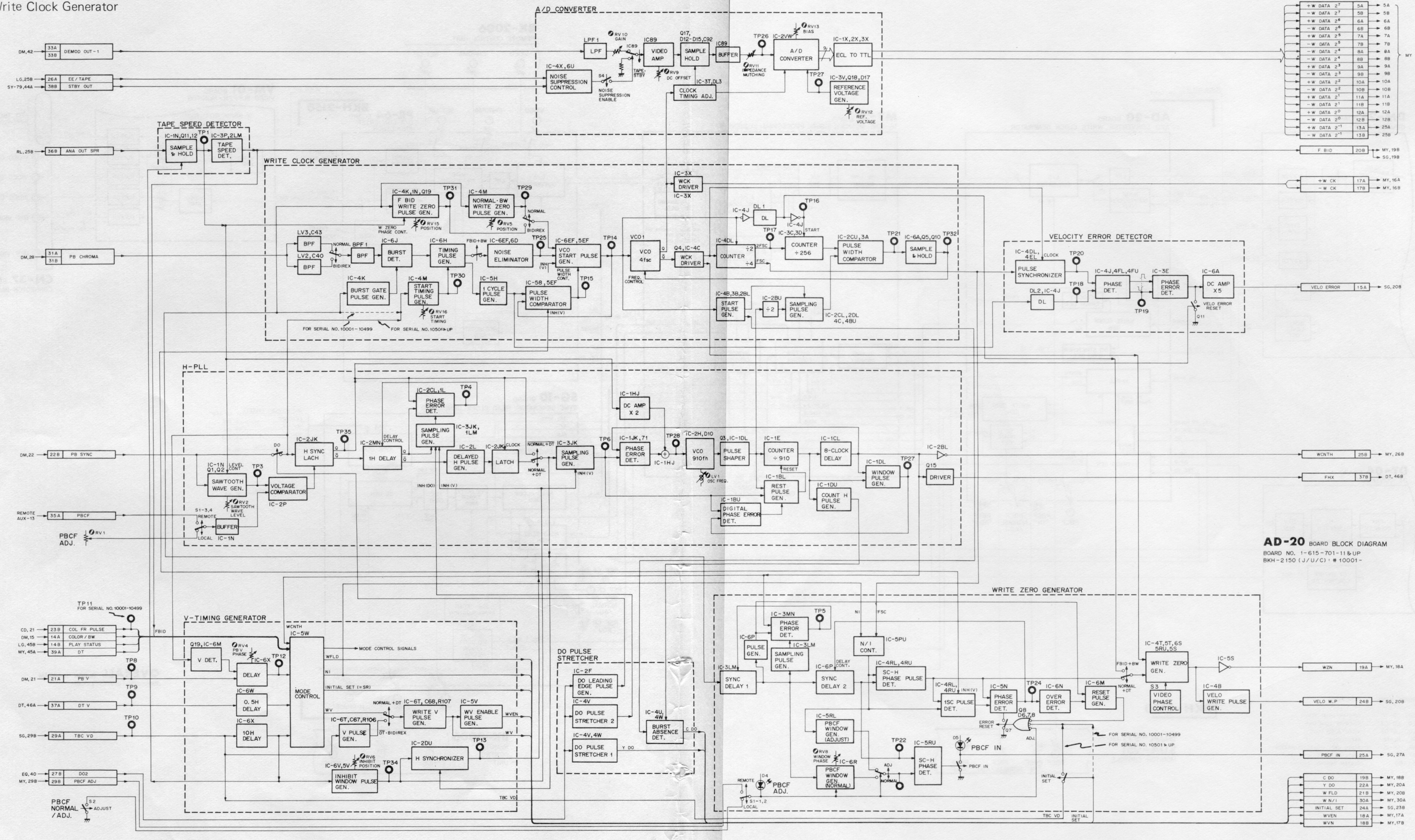
OVERALL BLOCK DIAGRAM



BOARD NAME	FUNCTION
CD, CD-17	CAPSTAN/DRUM SERVO
EQ, EQ-02	VIDEO PB EQUALIZER
LG, LG-02	VIDEO/AUDIO LOGIC
RL, RL-12	REEL SERVO
SR, SR-15	SERVO REF. SIGNAL GENERATOR
SY-79	SYSTEM CONTROL CPU-1
SY-80	SYSTEM CONTROL CPU-2

AD-20 BOARD

A/D Converter
Write Clock Generator

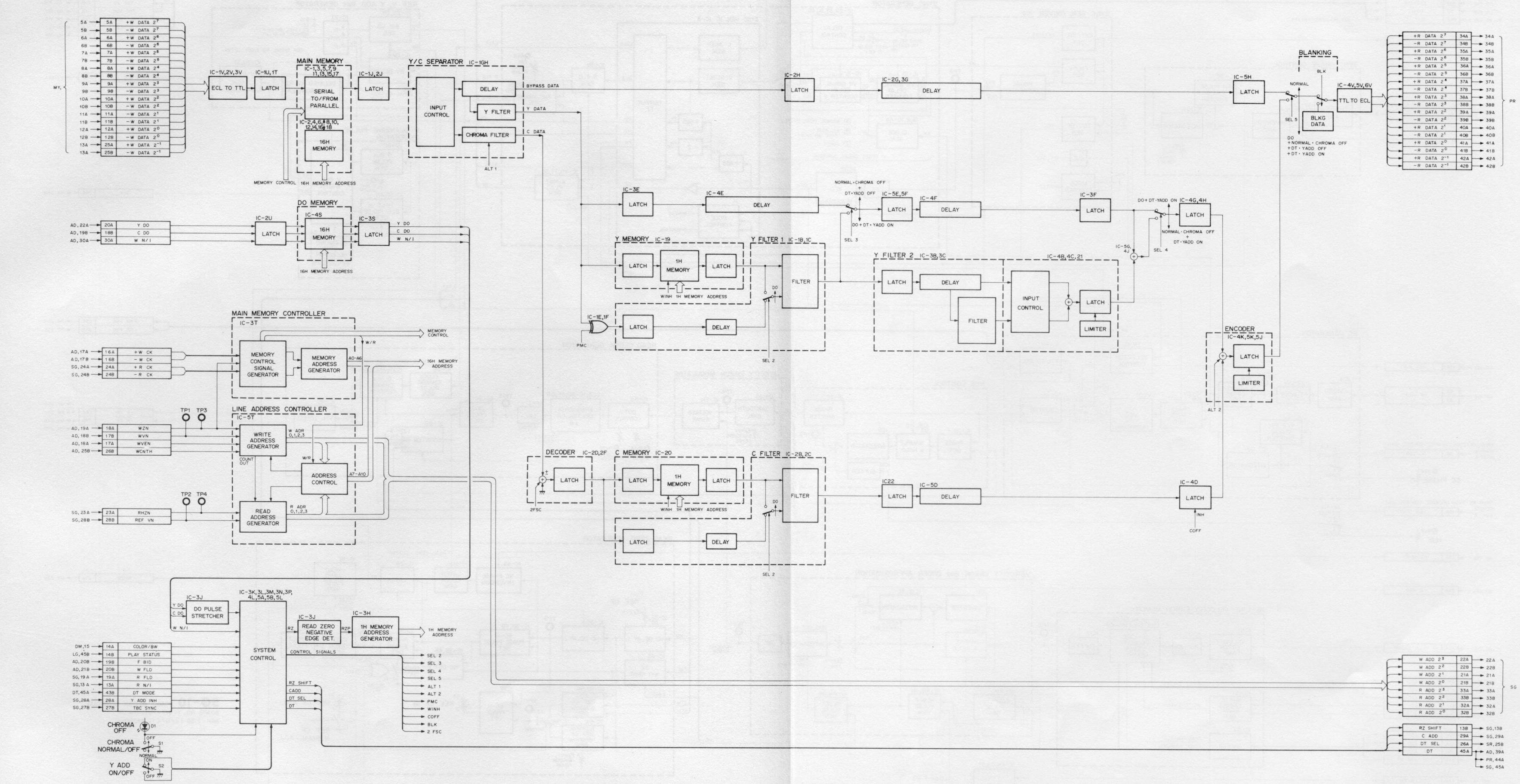


AD-20 BOARD BLOCK DIAGRAM

BOARD NO. 1-615-701-11 & UP
BKH-2150 (J/U/C) # 10001~

MY-21 BOARD

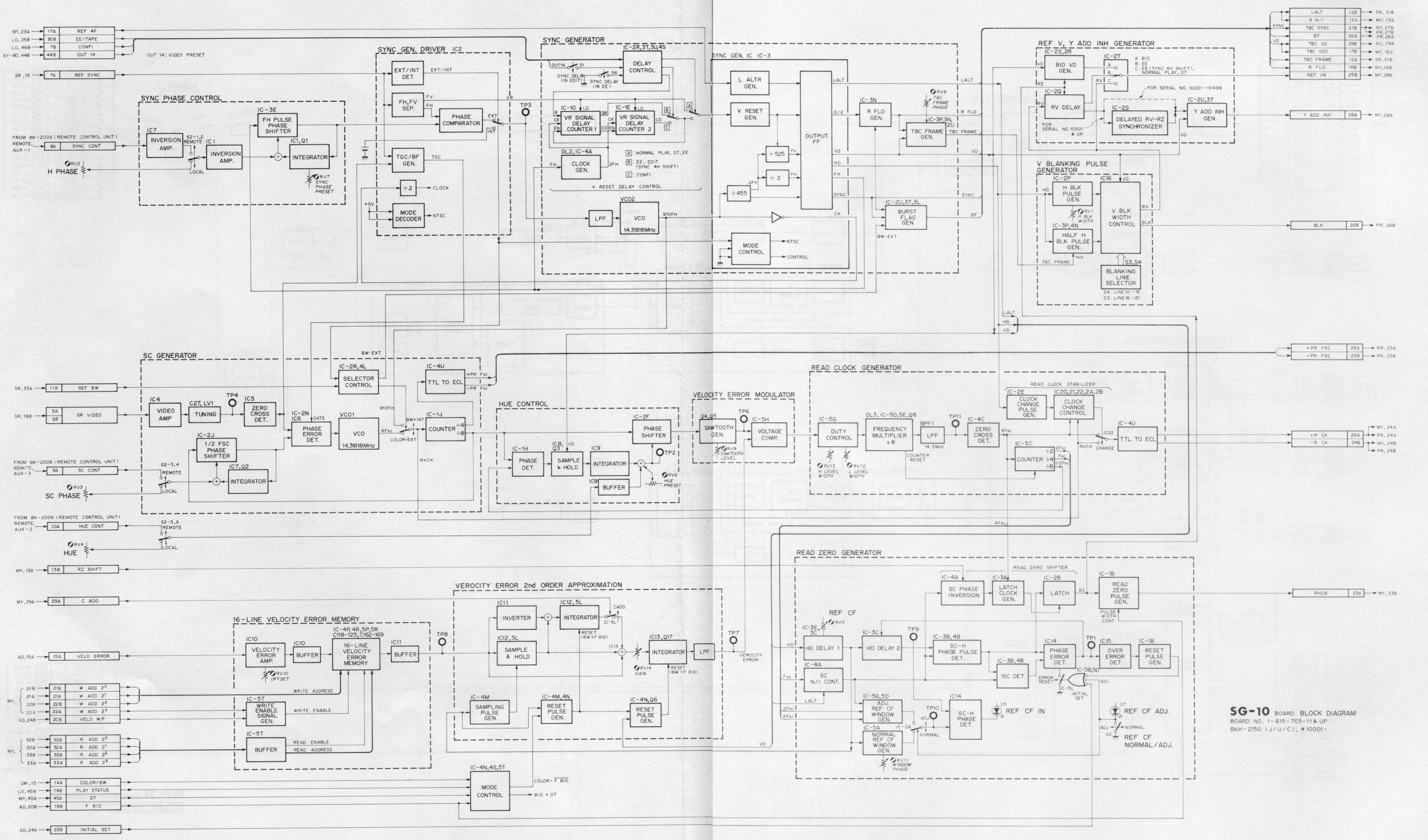
16-Line Memory
Dropout Compensator
Sequencer



MY-21 BOARD BLOCK DIAGRAM
BOARD NO. 1-615-702-11 & UP
BKH-2150(J/U/C): #10001-

SG-10 BOARD

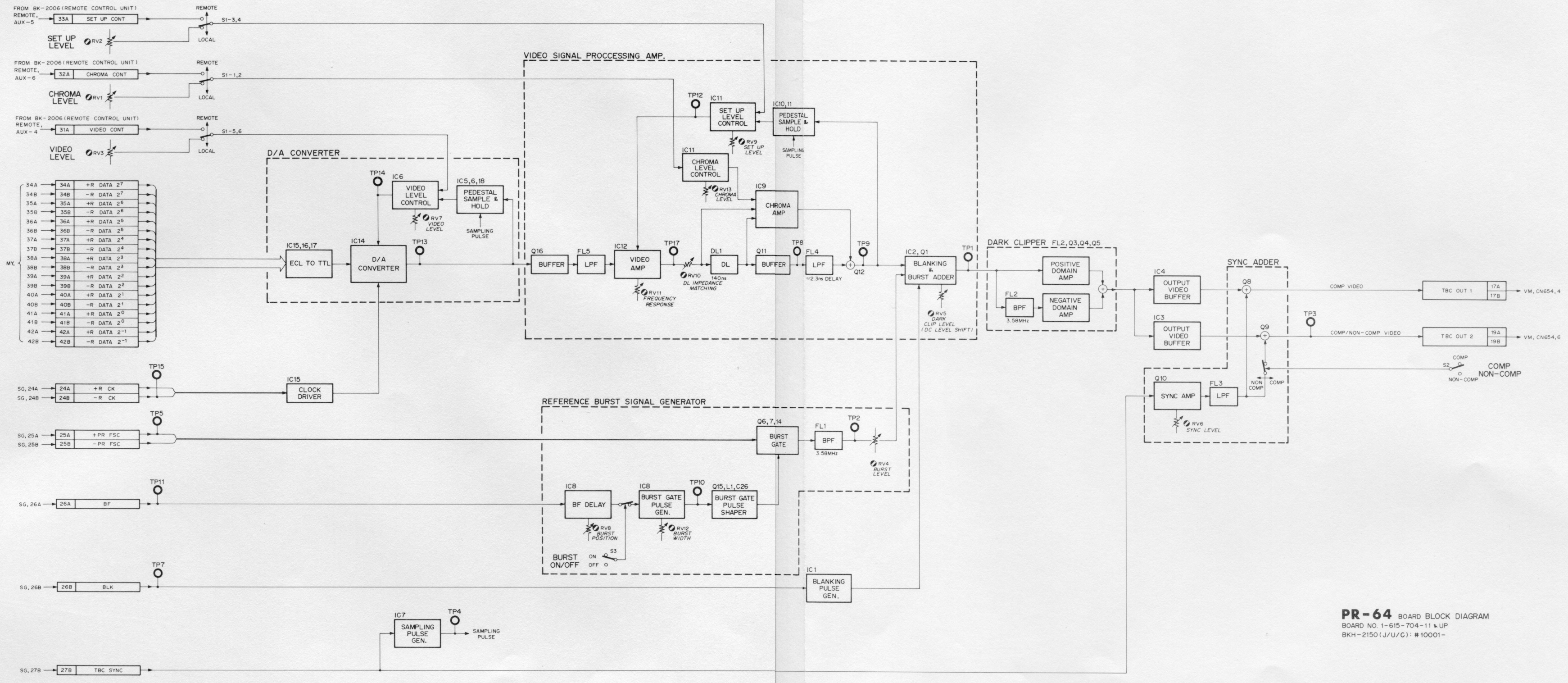
Sync Generator
Read Clock Generator



SG-10 BOARD BLOCK DIAGRAM
BOARD NO. 1-615-703-11 & UP
BKH-2150 (J/U/C); #10001-

PR-64 BOARD

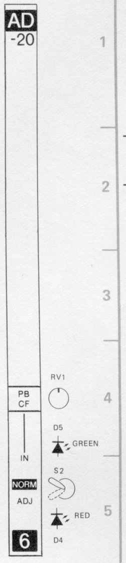
D/A Converter
Processor

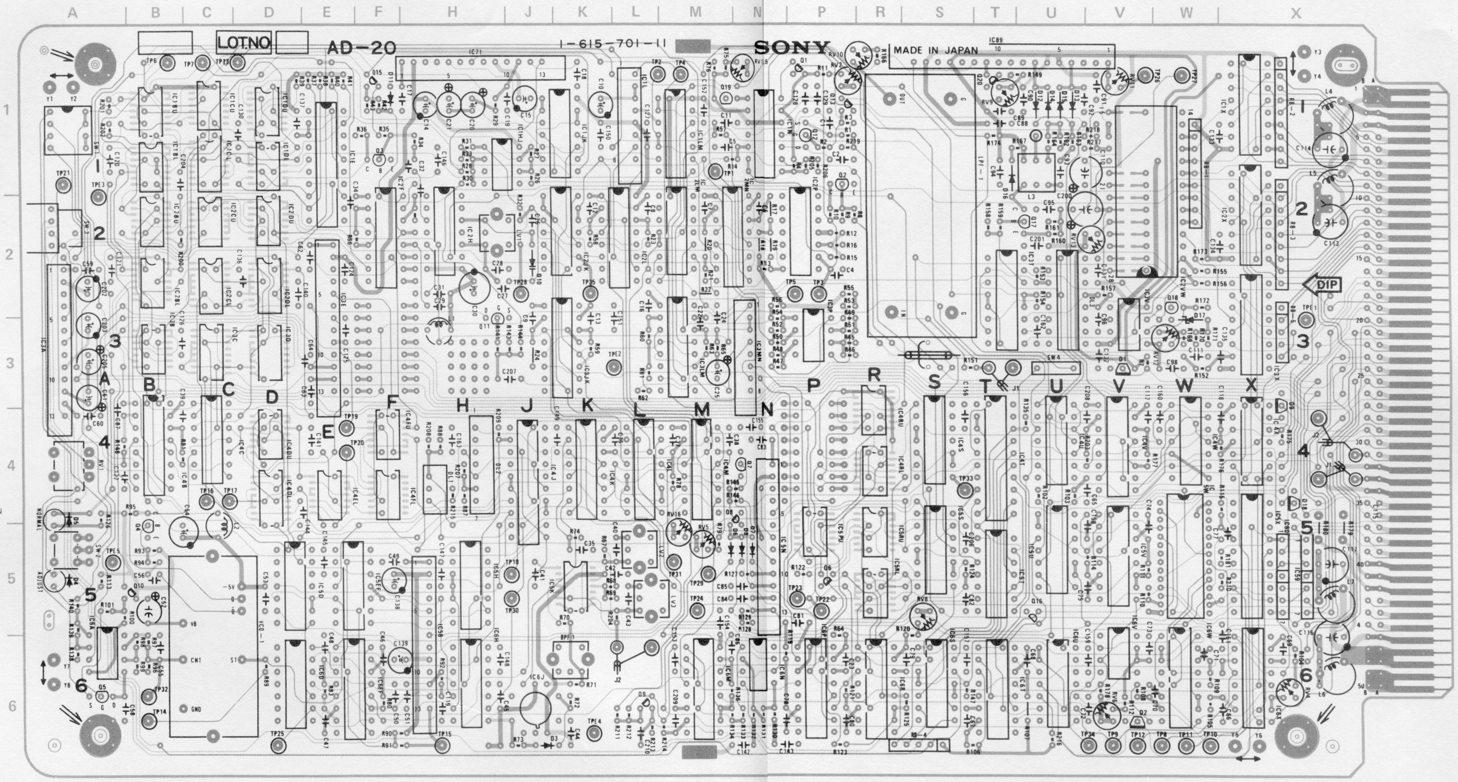


PR-64 BOARD BLOCK DIAGRAM
BOARD NO. 1-615-704-11 & UP
BKH-2150(J/U/C): #10001-

AD-20 BOARD (1-615-701-11)

Component Side

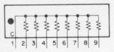




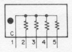
■ 1-615-701-11 COMPONENT SIDE

■ 1-615-701-11 SOLDER SIDE

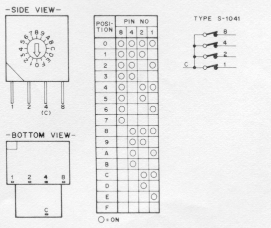
RB1, 2, 3



RB4, 5



S3



AD-20 (1-615-701-11)

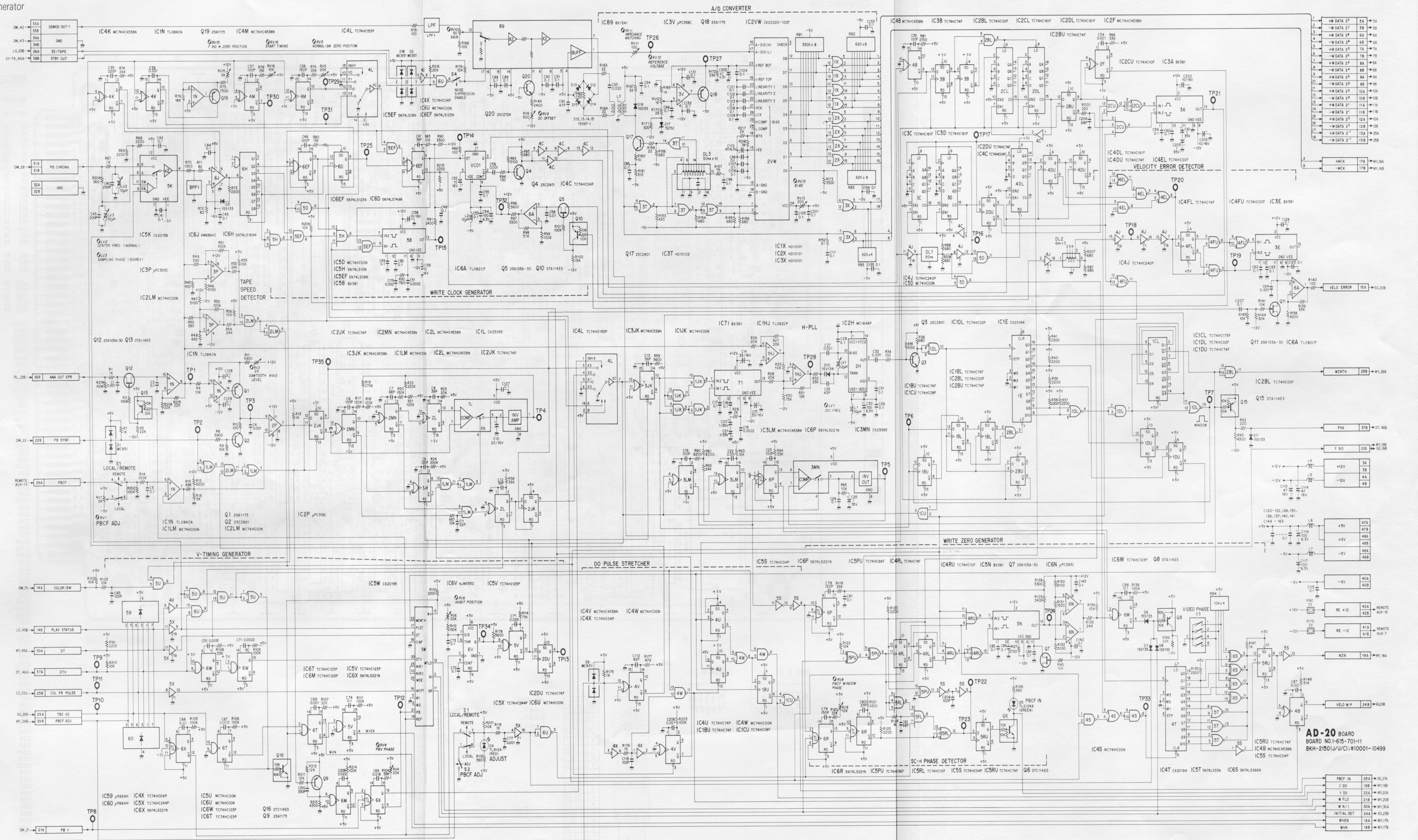
BKH-2150(J,U/C)

BPF1	6K
D1	3V
D2	6V
D3	6J
D4	5A
D5	4A
D6	5N
D7	5N
D8	5N
D9	3X
D10	2J
D11	1F
D12	1U
D13	1U
D14	1U
D15	1U
D16	1T
D17	3W
D18	4X
DL1	4H
DL2	4H
DL3	3U
IC58	6H
IC59	5X
IC60	5X
IC71	1H
IC89	1T
IC1BL	
IC1BU	
IC1CL	
IC1CU	
IC1DL	
IC1DU	
IC1E	
IC1HJ	
IC1JK	
IC1L	
IC1LM	
IC1N	
IC1X	
IC2BL	
IC2BU	
IC2CL	
IC2CU	
IC2DL	
IC2DU	
IC2F	
IC2H	
IC2JK	
IC2L	
IC2LM	
IC2MN	
IC2P	
IC2VW	
IC3A	
IC3B	
IC3C	
IC3D	
IC3E	
IC3JK	
IC3LM	
IC3MN	
IC3P	
IC3T	
IC3V	
IC3X	
IC4B	
IC4C	
IC4DL	
IC4DU	
IC4EL	
IC4FL	
IC4FU	
IC4J	
IC4K	
IC4L	
IC4M	
IC4RL	
IC4RU	
IC4S	
IC4T	
IC4U	
IC4V	
IC4W	
IC4X	
IC5D	
IC5EF	
IC5H	
IC5K	
IC5N	
IC5PU	
IC5RL	
IC5RU	
IC5S	
IC5T	
IC5U	
IC5V	
IC5W	
IC5X	
IC6A	
IC6D	
IC6EF	
IC6F	

IC6H	
IC6J	
IC6M	
IC6N	
IC6P	
IC6R	
IC6S	
IC6T	
IC6U	
IC6V	
IC6W	
IC6X	
LPF	1S
LV1	2H
LV2	5L
LV3	5L
Q1	1P
Q2	1P
Q3	1F
Q4	4B
Q5	6A
Q6	5P
Q7	4N
Q8	4N
Q9	6L
Q10	5B
Q11	3H
Q12	1P
Q13	1P
Q15	1F
Q16	5U
Q17	2U
Q18	3W
Q19	1M
Q20	1T
RB1	1W
RB2	1X
RB3	2X
RB4	6S
RB5	3X
RV1	4A
RV2	1P
RV4	6X
RV5	5M
RV6	6V
RV8	5S
RV9	1T
RV10	1P
RV11	1V
RV12	3W
RV13	2V
RV15	1N
RV16	5M
S1	1A
S2	5A
S3	2A
S4	3U
TP1	1M
TP2	1L
TP3	2P
TP4	1M
TP5	2P
TP6	1B
TP7	1C
TP8	6W
TP9	6V
TP10	6W
TP11	6W
TP12	6V
TP13	1D
TP14	6B
TP15	6H
TP16	4C
TP17	4C
TP18	5J
TP19	4E
TP20	4E
TP21	1A
TP22	5P
TP23	5P
TP24	5M
TP25	6D
TP26	1V
TP27	1W
TP28	2J
TP29	5M
TP30	5J
TP31	5M
TP32	6B
TP33	4S
TP34	6U
TP35	2K
TPE1	3X
TPE2	3L
TPE3	2A
TPE4	6K
TPE5	5A
VCO1	5C

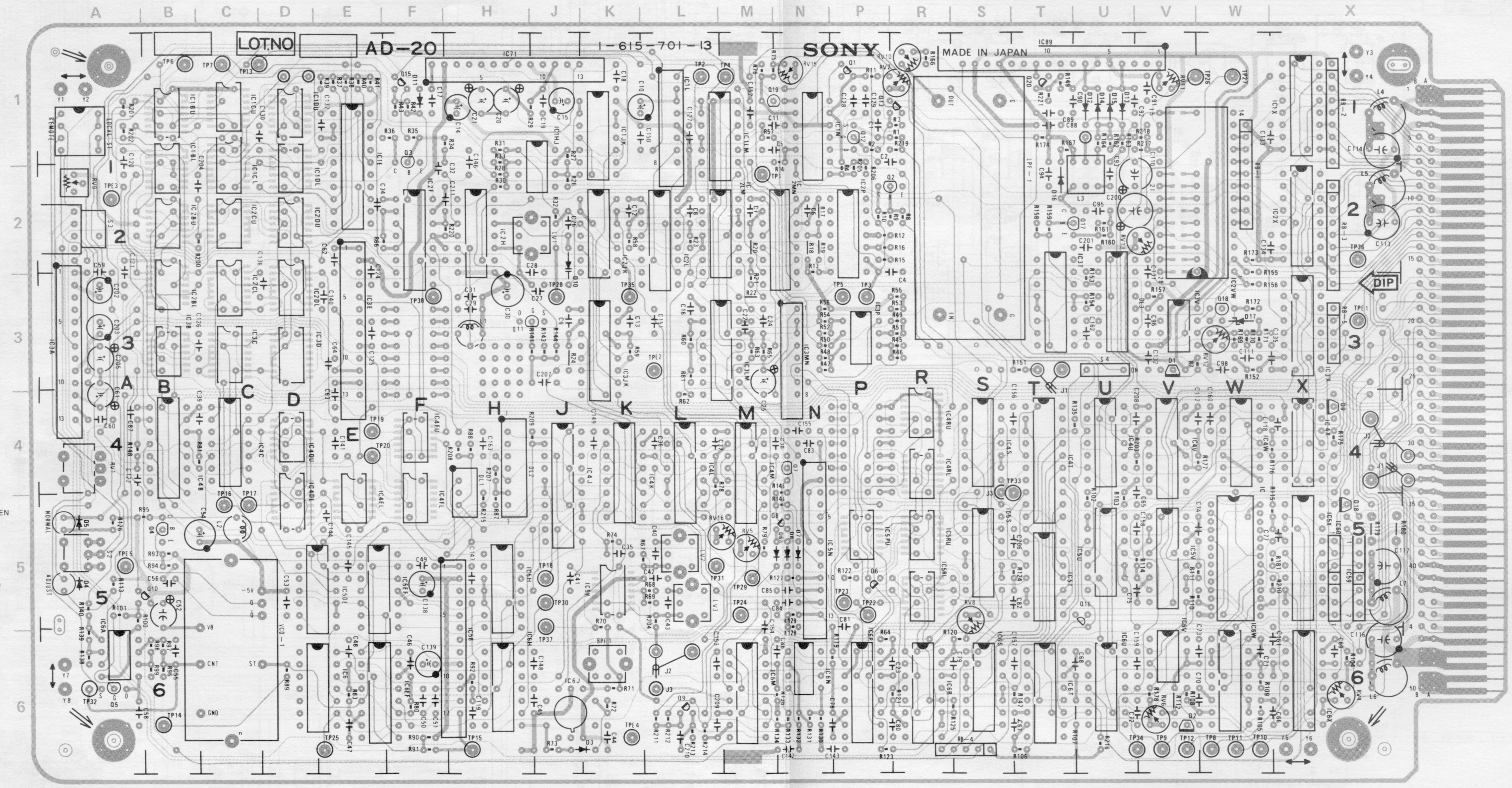
AD-20 BOARD

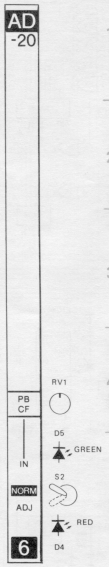
A/D Converter
Write Clock Generator



AD-20 BOARD (1-615-701-13)

Component Side

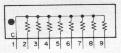




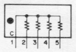
■ 1-615-701-13 COMPONENT SIDE

■ 1-615-701-13 SOLDER SIDE

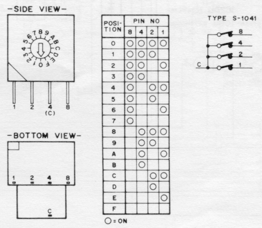
RB1, 2, 3



RB4, 5



S3



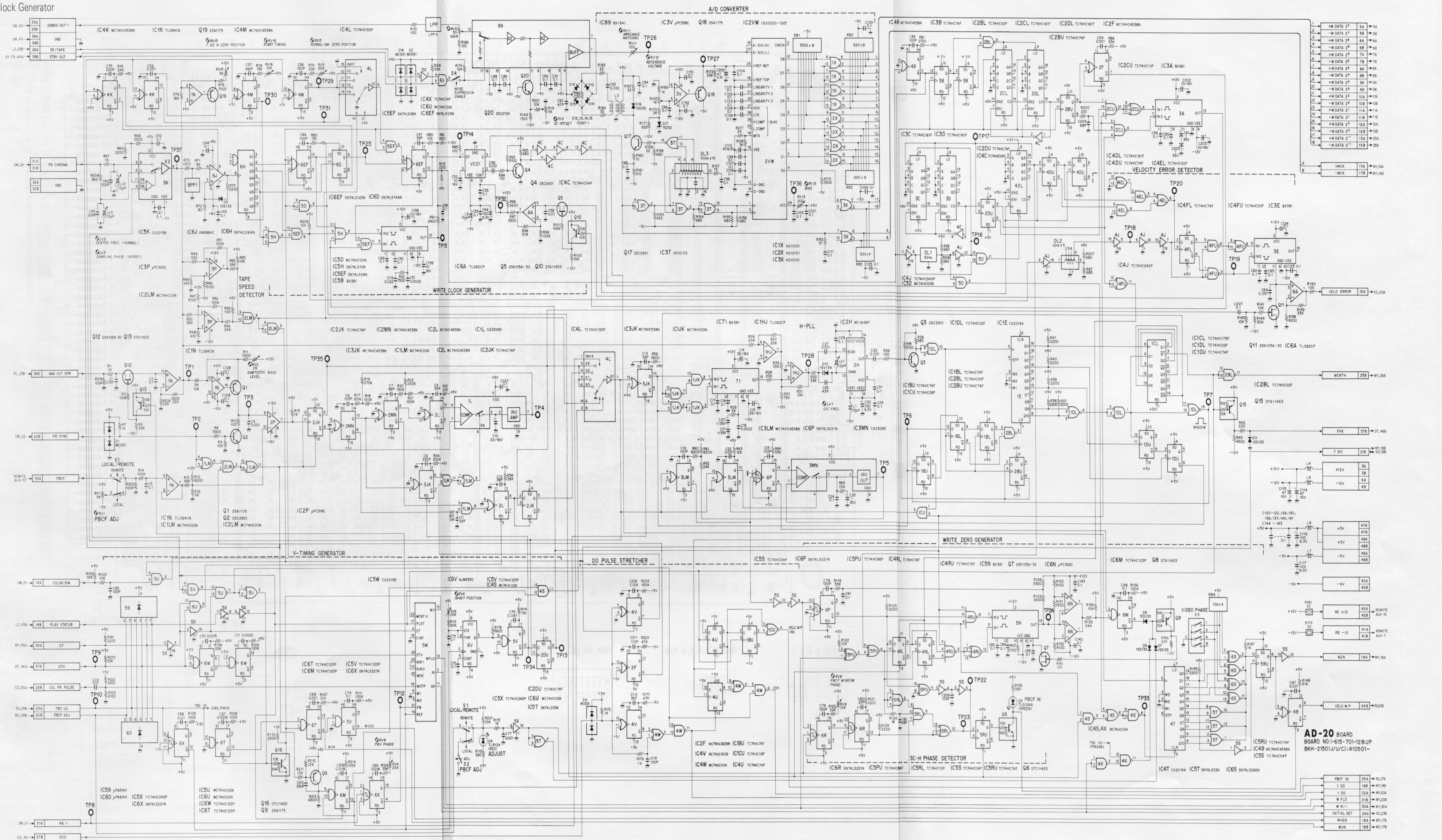
AD-20 (1-615-701-12 & UP)

BKH-2150(J,U/C)

BPF1	6K	IC6H	
		IC6J	
D1	3V	IC6M	
D2	6V	IC6N	
D3	6J	IC6P	
D4	5A	IC6R	
D5	5A	IC6S	
D6	5N	IC6T	
D7	5N	IC6U	
D8	5N	IC6V	
D9	4X	IC6W	
D10	2J	IC6X	
D11	1F		
D12	1U	LPF	1S
D13	1U		
D14	1U	LV1	2H
D15	1U	LV2	5L
D16	2T	LV3	5L
D17	3W		
D18	5X	Q1	1P
		Q2	2P
DL1	4H	Q3	1F
DL2	4H	Q4	5B
DL3	3U	Q5	6A
		Q6	5P
IC58	6H	Q7	4N
IC59	5X	Q8	5N
IC60	5X	Q9	6L
IC71	1H	Q10	5B
IC89	1T	Q11	3H
		Q12	1P
IC1BL		Q13	1P
IC1BU		Q15	1F
IC1CL		Q16	5U
IC1CU		Q17	2U
IC1DL		Q18	3W
IC1DU		Q19	1M
IC1E		Q20	1T
IC1HJ			
IC1JK		RB1	1W
IC1L		RB2	1X
IC1LM		RB3	2X
IC1N		RB4	6S
IC1X		RB5	3X
IC2BL			
IC2BU		RV1	4A
IC2CL		RV2	1P
IC2CU		RV4	6X
IC2DL		RV5	5M
IC2DU		RV6	6V
IC2F		RV8	5S
IC2H		RV9	1T
IC2JK		RV10	1P
IC2L		RV11	1V
IC2LM		RV12	3W
IC2MN		RV13	2V
IC2P		RV15	1N
IC2VW		RV16	5M
IC3A			
IC3B		S1	1A
IC3C		S2	5A
IC3D		S3	2A
IC3E		S4	3U
IC3JK			
IC3LM		TP1	2M
IC3MN		TP2	1L
IC3P		TP3	3P
IC3T		TP4	1M
IC3V		TP5	3P
IC3X		TP6	1B
IC4B		TP7	1C
IC4C		TP8	6W
IC4DL		TP9	6V
IC4DU		TP10	6W
IC4EL		TP12	6V
IC4FL		TP13	1D
IC4FU		TP14	6B
IC4J		TP15	6H
IC4K		TP16	5C
IC4L		TP17	5C
IC4M		TP18	5J
IC4RL		TP19	4E
IC4RU		TP20	4E
IC4S		TP22	5P
IC4T		TP23	5P
IC4U		TP24	5M
IC4V		TP25	6E
IC4W		TP26	1V
IC4X		TP27	1W
IC5D		TP28	3J
IC5EF		TP29	5M
IC5H		TP30	5J
IC5K		TP31	5M
IC5N		TP32	6B
IC5PU		TP33	4S
IC5RL		TP34	6U
IC5RU		TP35	2K
IC5S		TP36	2X
IC5T		TP37	5J
IC5U			
IC5V		TPE1	3X
IC5W		TPE2	3L
IC5X		TPE3	2A
IC6A		TPE4	6K
IC6D		TPE5	5A
IC6EF			
IC6F		VCO1	5C

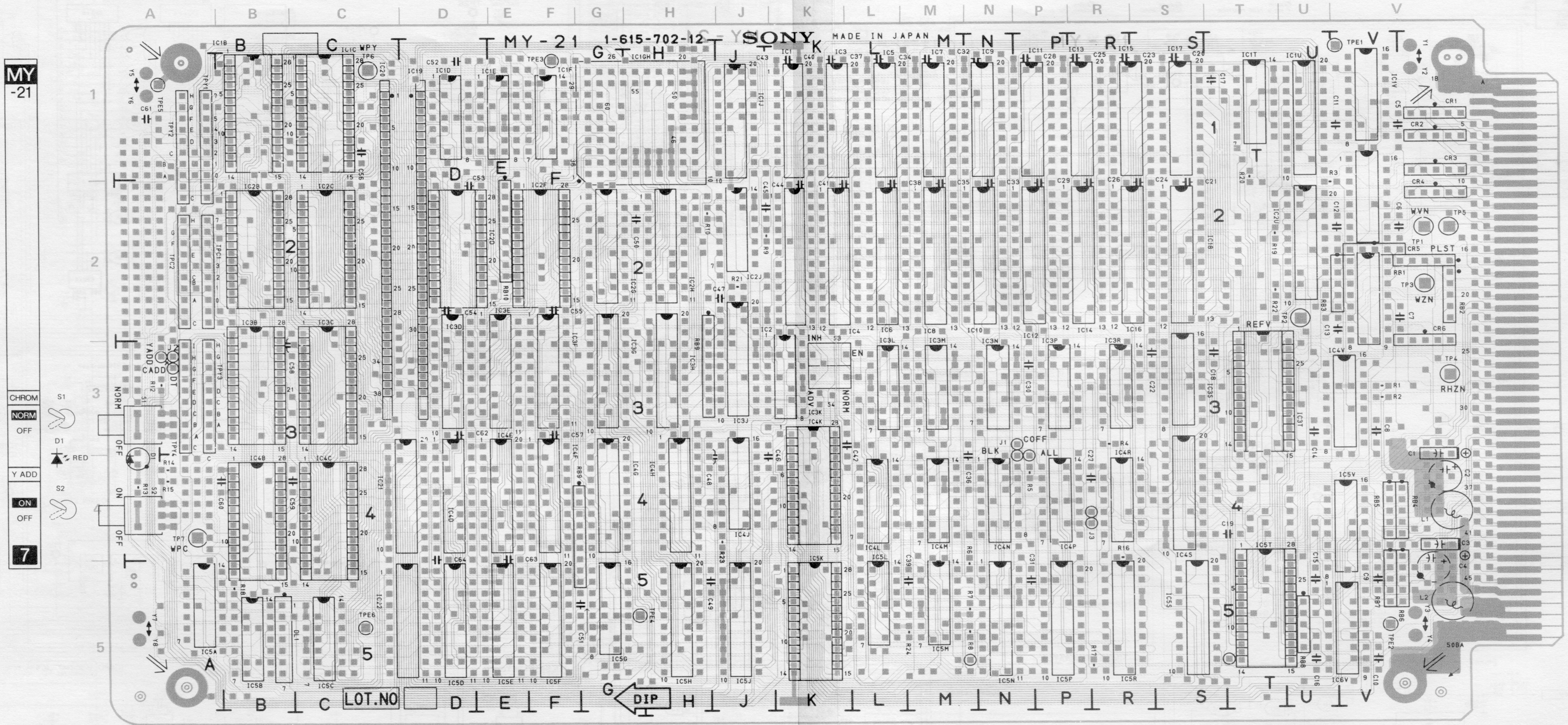
AD-20 BOARD

A/D Converter
Write Clock Generator



MY-21 BOARD (1-615-702-12)

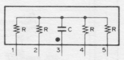
Component Side



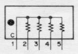
■ 1-615-702-12 COMPONENT SIDE

■ 1-615-702-12 SOLDER SIDE

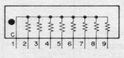
CR1, 2, 3, 4, 5, 6



RB1, 2, 3, 4, 5, 6, 7, 8



RB9, 10, 11



MY-21 (1-615-702-12

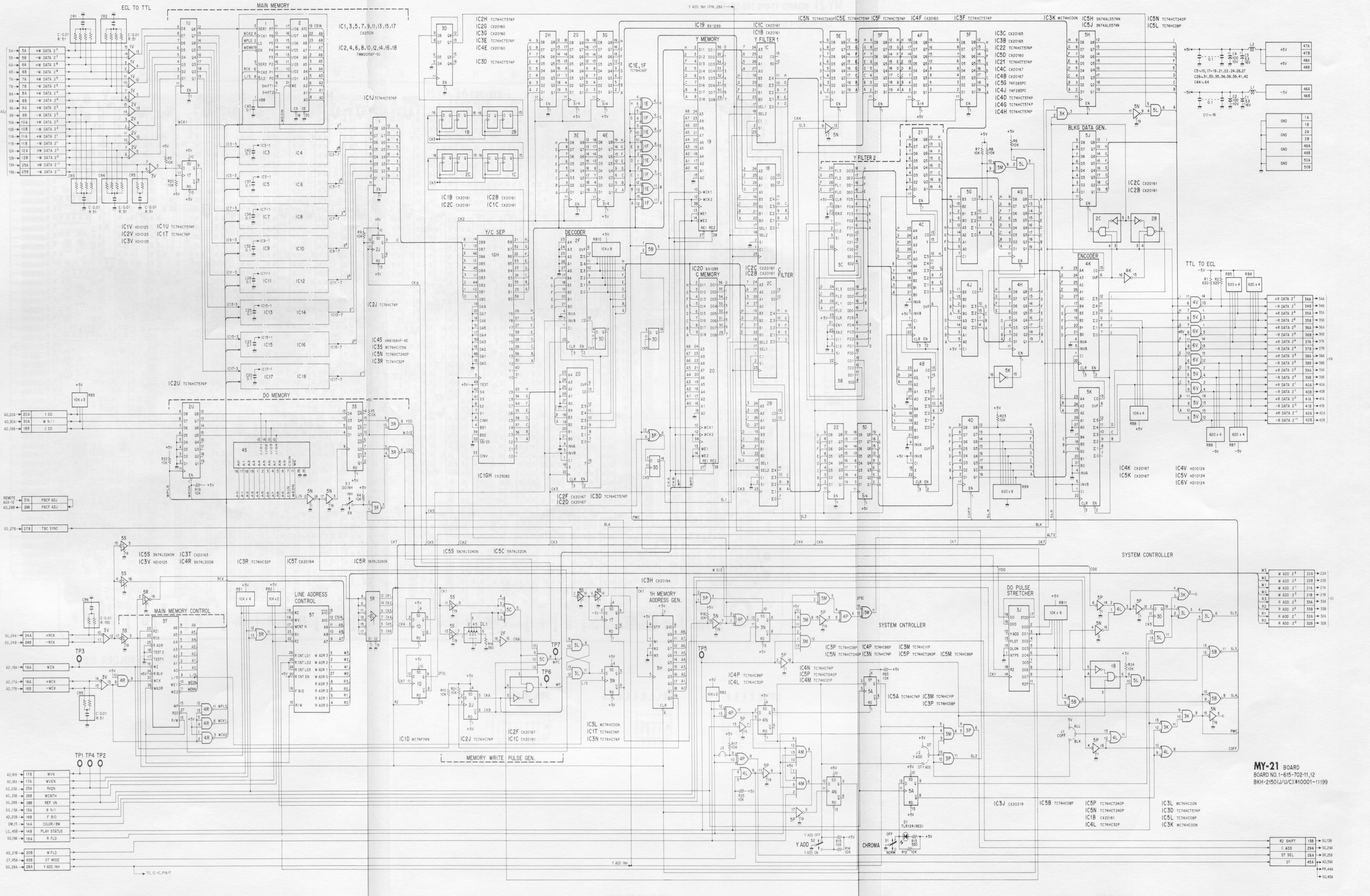
BKH-2150(J,U/C)

CR1	1V
CR2	1V
CR3	1V
CR4	2V
CR5	2V
CR6	3V
D1	4A
DL1	5B
IC1	1K
IC2	3K
IC3	1K
IC4	2K
IC5	1L
IC6	2L
IC7	1M
IC8	2M
IC9	1N
IC10	2N
IC11	1P
IC12	2P
IC13	1P
IC14	2P
IC15	1R
IC16	2R
IC17	1S
IC18	2S
IC19	2D
IC20	2C
IC21	4D
IC22	5D
IC1B	
IC1C	
IC1D	
IC1E	
IC1F	
IC1GH	
IC1J	
IC1T	
IC1U	
IC1V	
IC2B	
IC2C	
IC2D	
IC2F	
IC2G	
IC2H	
IC2J	
IC2U	
IC2V	
IC3B	
IC3C	
IC3D	
IC3E	
IC3F	
IC3G	
IC3H	
IC3J	
IC3K	
IC3L	
IC3M	
IC3N	
IC3P	
IC3R	
IC3S	
IC3T	
IC3V	

IC4B	
IC4C	
IC4D	
IC4E	
IC4F	
IC4G	
IC4H	
IC4J	
IC4K	
IC4L	
IC4M	
IC4N	
IC4P	
IC4R	
IC4S	
IC4V	
IC5A	
IC5B	
IC5C	
IC5D	
IC5E	
IC5F	
IC5G	
IC5H	
IC5J	
IC5K	
IC5L	
IC5M	
IC5N	
IC5P	
IC5R	
IC5S	
IC5T	
IC5V	
IC6V	
RB1	2V
RB2	2V
RB3	2V
RB4	4V
RB5	4V
RB6	5V
RB7	5V
RB8	5U
RB9	4G
RB10	2E
RB11	3H
S1	3A
S2	4A
S3	3K
TP1	2V
TP2	2U
TP3	2V
TP4	3V
TP5	2V
TP6	1C
TP7	4A
TPE1	1V
TPE2	5V
TPE3	1F
TPE4	5G
TPE5	1A
TPE6	5C

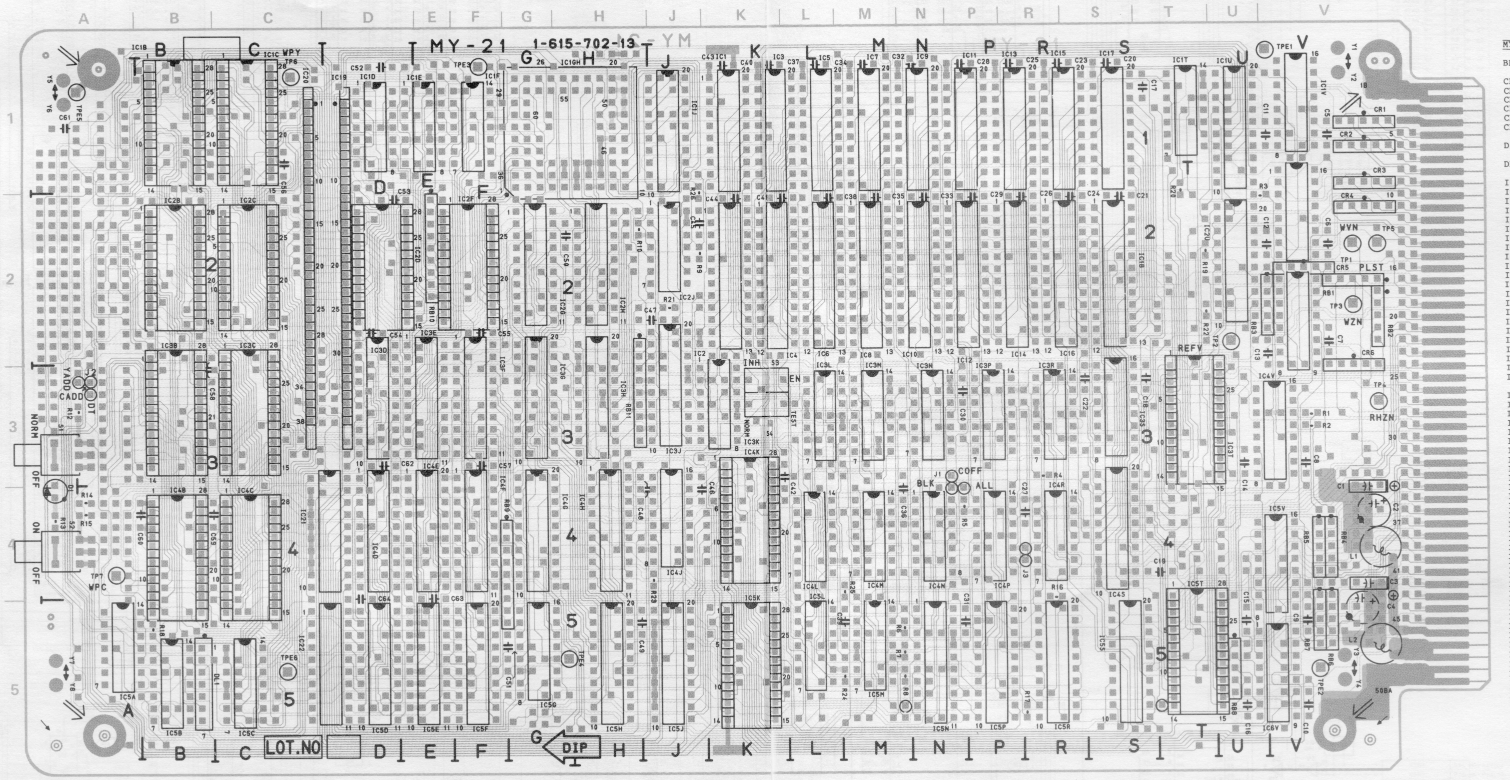
MY-21 BOARD

16-Line Memory
Dropout Compensator
Sequencer



MY-21 BOARD (1-615-702-13)

Component Side



1-615-702-13 COMPONENT SIDE

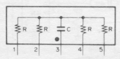
1-615-702-13 SOLDER SIDE

MY-21 (1-615-702-13 & UP)

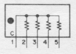
BKH-2150(J,U/C)

CR1	1V
CR2	1V
CR3	1V
CR4	2V
CR5	2V
CR6	3V
D1	4A
DL1	5B
IC1	1K
IC2	3K
IC3	1K
IC4	2K
IC5	1L
IC6	2L
IC7	1M
IC8	2M
IC9	1N
IC10	2N
IC11	1P
IC12	2P
IC13	1P
IC14	2P
IC15	1R
IC16	2R
IC17	1S
IC18	2S
IC19	2D
IC20	2C
IC21	4D
IC22	5D
IC1B	
IC1C	
IC1D	
IC1E	
IC1F	
IC1GH	
IC1J	
IC1T	
IC1U	
IC1V	
IC2B	
IC2C	
IC2D	
IC2F	
IC2G	
IC2H	
IC2J	
IC2U	
IC2V	
IC3B	
IC3C	
IC3D	
IC3E	
IC3F	
IC3G	
IC3H	
IC3J	
IC3K	
IC3L	
IC3M	
IC3N	
IC3P	
IC3R	
IC3S	
IC3T	
IC3V	
IC4B	
IC4C	
IC4D	
IC4E	
IC4F	
IC4G	
IC4H	
IC4J	
IC4K	
IC4L	
IC4M	
IC4N	
IC4P	
IC4R	
IC4S	
IC4V	
IC5A	
IC5B	
IC5C	
IC5D	
IC5E	
IC5F	
IC5G	
IC5H	
IC5J	
IC5K	
IC5L	
IC5M	
IC5N	
IC5P	
IC5R	
IC5S	
IC5T	
IC5V	
IC6V	
RB1	2V
RB2	2V
RB3	2V
RB4	4V
RB5	4V
RB6	5V
RB7	5V
RB8	5U
RB9	4G
RB10	2E
RB11	3H
S1	3A
S2	4A
S3	3K
S4	3K
TP1	2V
TP2	2U
TP3	2V
TP4	3V
TP5	2V
TP6	1C
TP7	4A
TPE1	1V
TPE2	5V
TPE3	1F
TPE4	5G
TPE5	1A
TPE6	5C

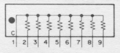
CR1, 2, 3, 4, 5, 6



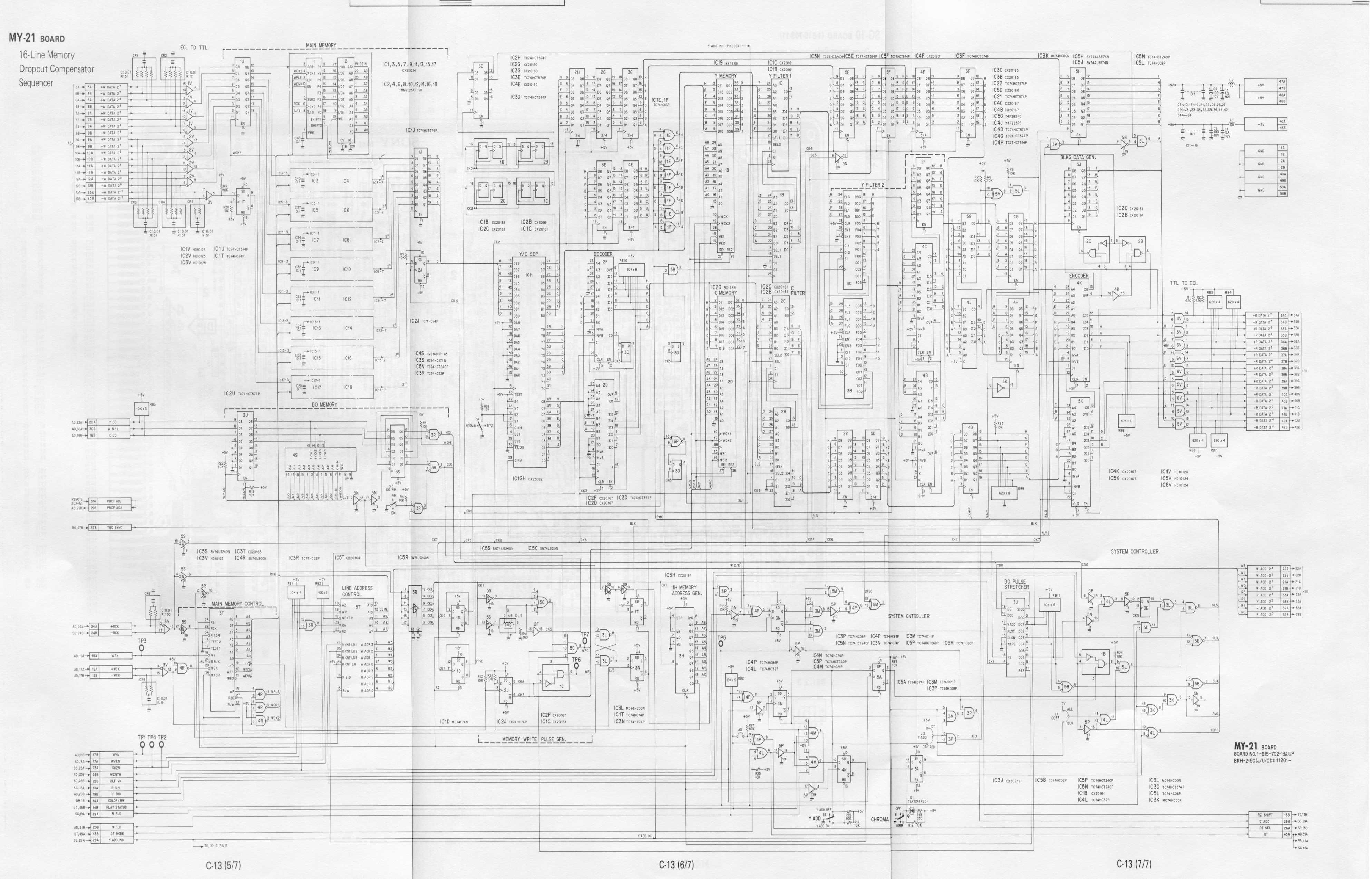
RB1, 2, 3, 4, 5, 6, 7, 8



RB9, 10, 11

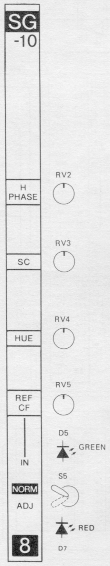


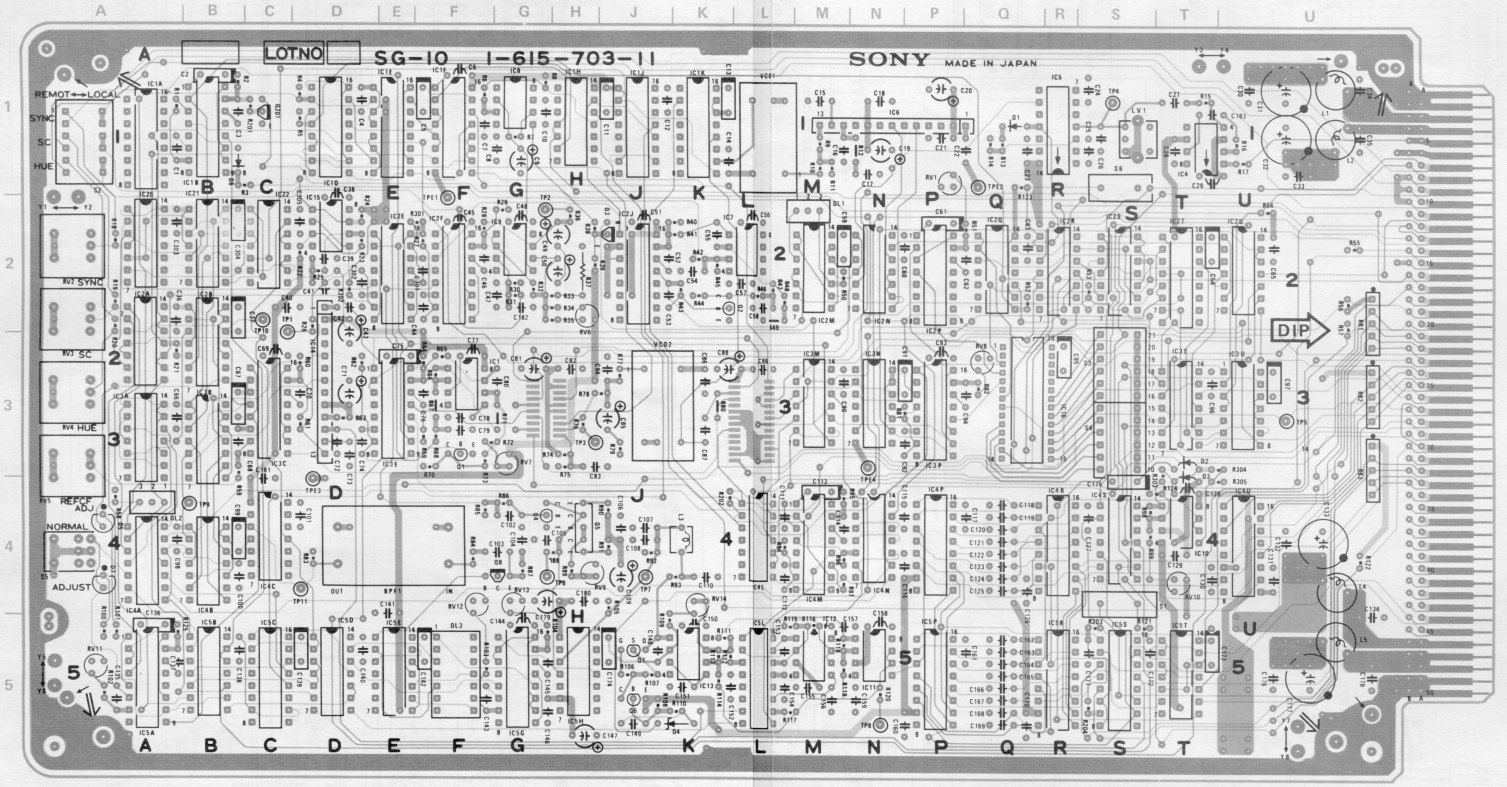
MY-21 BOARD
16-Line Memory
Dropout Compensator
Sequencer



SG-10 BOARD (1-615-703-11)

Component Side

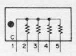




■ 1-615-703-11 COMPONENT SIDE

■ 1-615-703-11 SOLDER SIDE

RB1, 2, 3



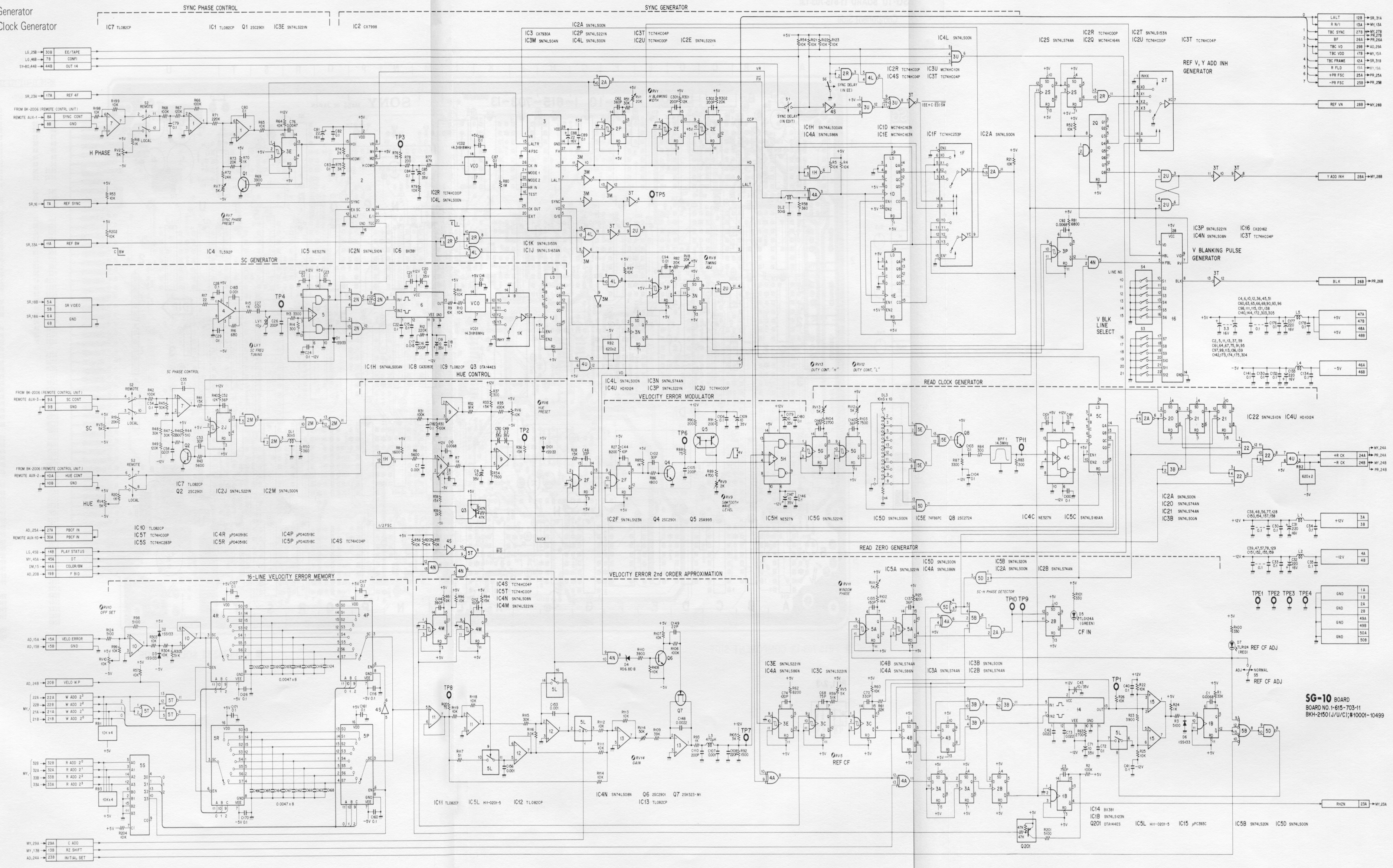
SG-10 (1-615-703-11)

BKH-2150(J,U/C)

BPF1	5E
D1	1Q
D2	3T
D3	3T
D4	5K
D5	4A
D6	1B
D7	4A
D101	2G
DL1	2M
DL2	4A
DL3	5F
IC1	3F
IC2	3G
IC3	3L
IC4	1T
IC5	1R
IC6	1N
IC7	2L
IC8	1G
IC9	2G
IC10	4T
IC11	5N
IC12	5M
IC13	5K
IC14	3D
IC15	2D
IC16	3Q
IC20	2A
IC21	2B
IC22	2C
IC1B	
IC1D	
IC1E	
IC1F	
IC1H	
IC1J	
IC1K	
IC2A	
IC2B	
IC2E	
IC2F	
IC2J	
IC2M	
IC2N	
IC2P	
IC2Q	
IC2R	
IC2S	
IC2T	
IC2U	
IC3A	
IC3B	
IC3C	
IC3E	
IC3M	
IC3N	
IC3P	
IC3T	
IC3U	
IC4A	
IC4B	
IC4C	
IC4L	
IC4M	
IC4N	
IC4P	
IC4R	
IC4S	
IC4U	
IC5A	
IC5B	
IC5C	
IC5D	
IC5E	
IC5G	
IC5H	
IC5L	
IC5P	
IC5R	
IC5S	
IC5T	
LV1	1S
Q1	3F
Q2	2K
Q3	2J
Q4	4G
Q5	4H
Q6	5J
Q7	5J
Q8	4G
Q201	1C
RB1	2U
RB2	3U
RB3	3U
RV1	1P
RV2	2A
RV3	2A
RV4	3A
RV5	3A
RV6	2H
RV7	3G
RV8	3Q
RV9	4H
RV10	4T
RV11	5A
RV12	4F
RV13	4G
RV14	4K
S1	4S
S2	1A
S3	3S
S4	3S
S5	4A
S6	1S
TP1	2C
TP2	2G
TP3	3H
TP4	1S
TP5	3U
TP6	4G
TP7	4J
TP8	5N
TP9	4B
TP10	2C
TP11	4D
TPE1	2F
TPE2	1Q
TPE3	3D
TPE4	3N
VCO1	1L
VCO2	3J

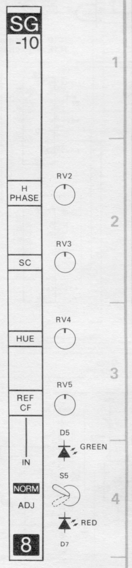
SG-10 BOARD

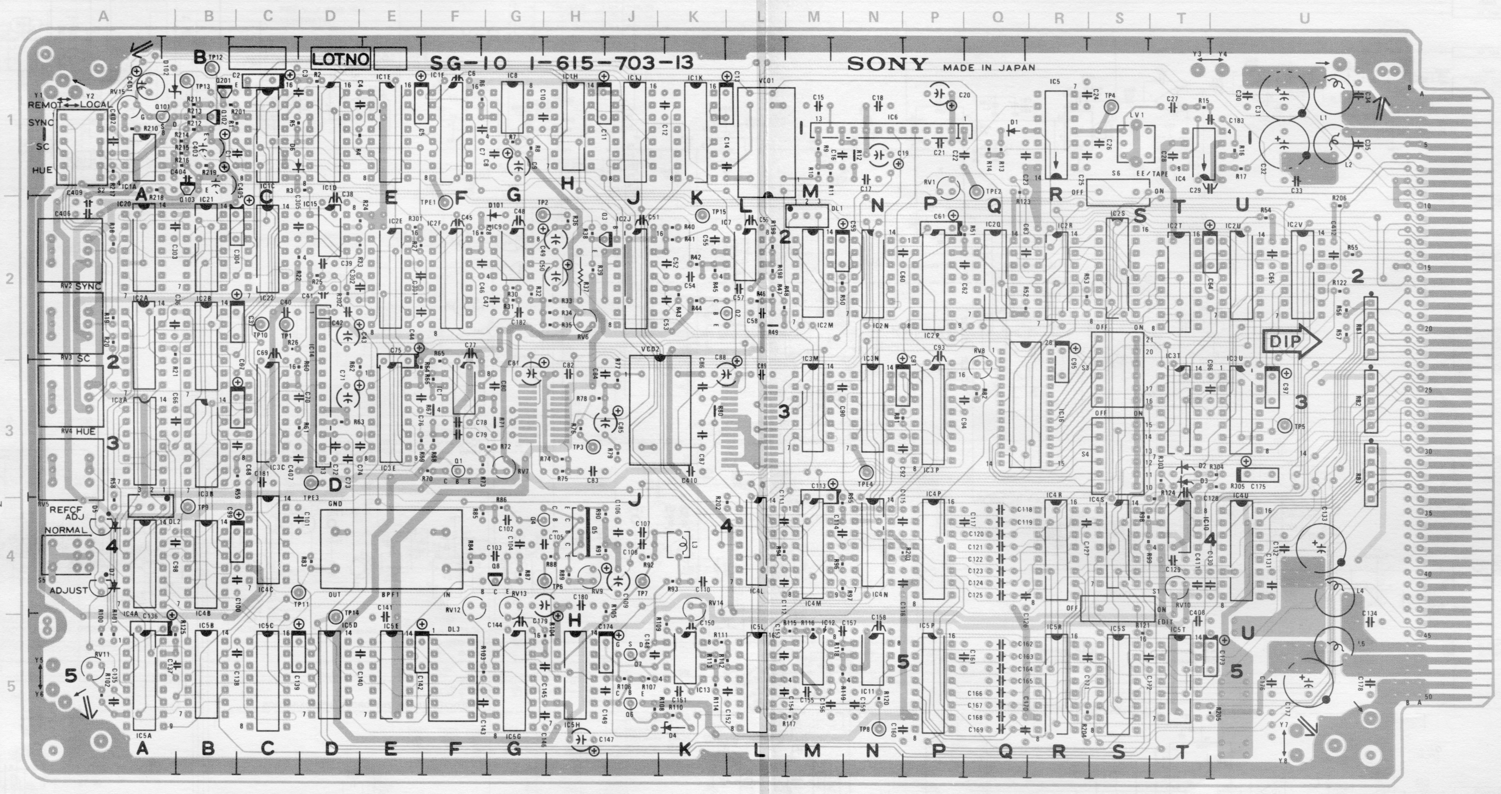
Sync Generator
Read Clock Generator



SG-10 BOARD (1-615-703-13)

Component Side

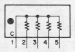




■ 1-615-703-13 COMPONENT SIDE

■ 1-615-703-13 SOLDER SIDE

RB1, 2, 3

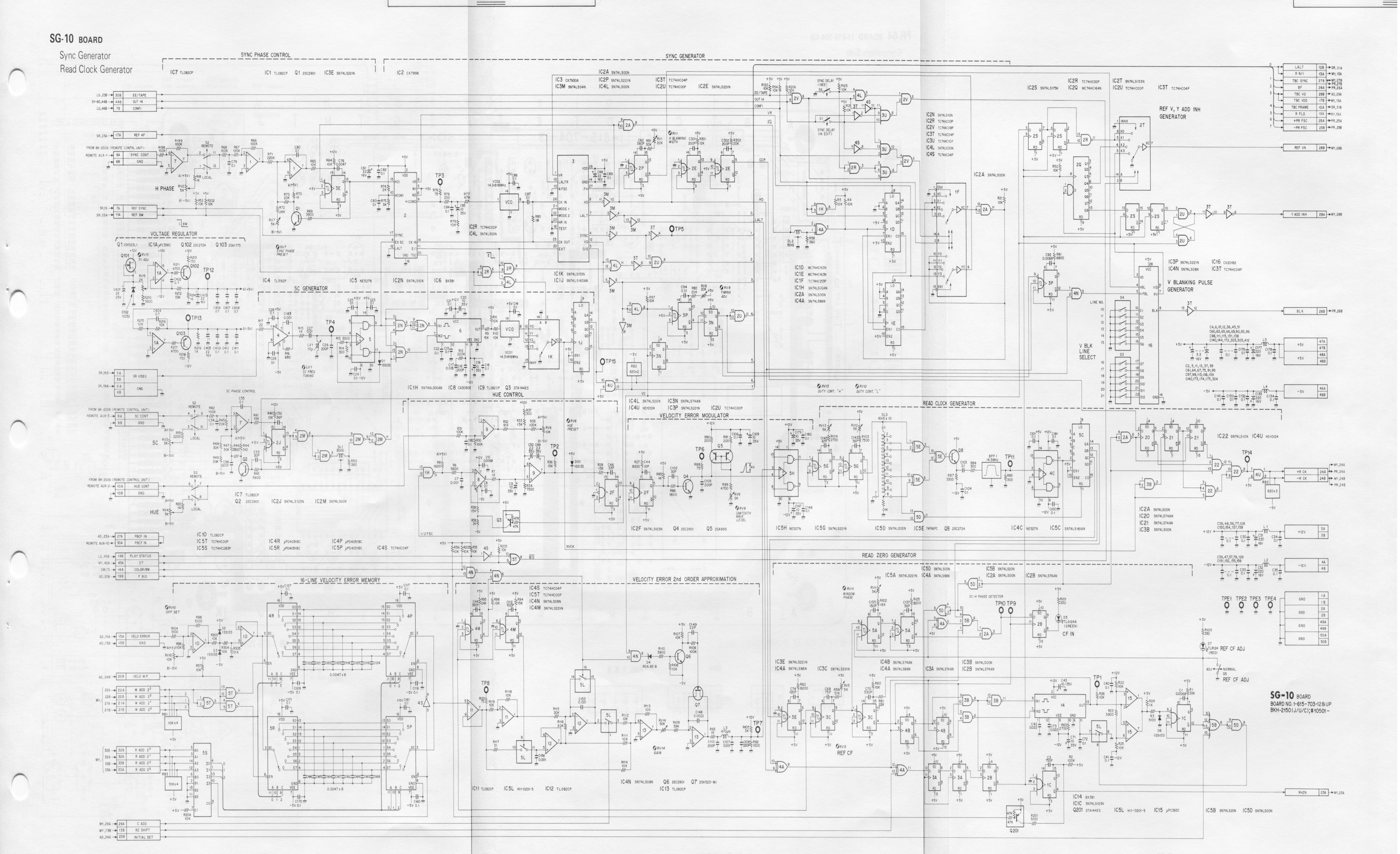


SG-10 (1-615-703-12 & UP)

BKH-2150(J,U/C)

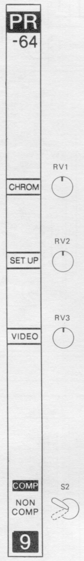
BPF1	4E
D1	1Q
D2	3T
D3	3T
D4	5K
D5	4A
D6	1B
D7	4A
D101	2G
D102	1B
DL1	2M
DL2	4A
DL3	5F
IC1	3F
IC2	3G
IC3	3L
IC4	1T
IC5	1R
IC6	1N
IC7	2L
IC8	1G
IC9	2G
IC10	4T
IC11	5N
IC12	5M
IC13	5K
IC14	3D
IC15	2D
IC16	3Q
IC20	2A
IC21	2B
IC22	2C
IC1A	
IC1C	
IC1D	
IC1E	
IC1F	
IC1H	
IC1J	
IC1K	
IC2A	
IC2B	
IC2E	
IC2F	
IC2J	
IC2M	
IC2N	
IC2P	
IC2Q	
IC2R	
IC2S	
IC2T	
IC2U	
IC3A	
IC3B	
IC3C	
IC3E	
IC3M	
IC3N	
IC3P	
IC3T	
IC3U	
IC4A	
IC4B	
IC4C	
IC4L	
IC4M	
IC4N	
IC4P	
IC4R	
IC4S	
IC4U	

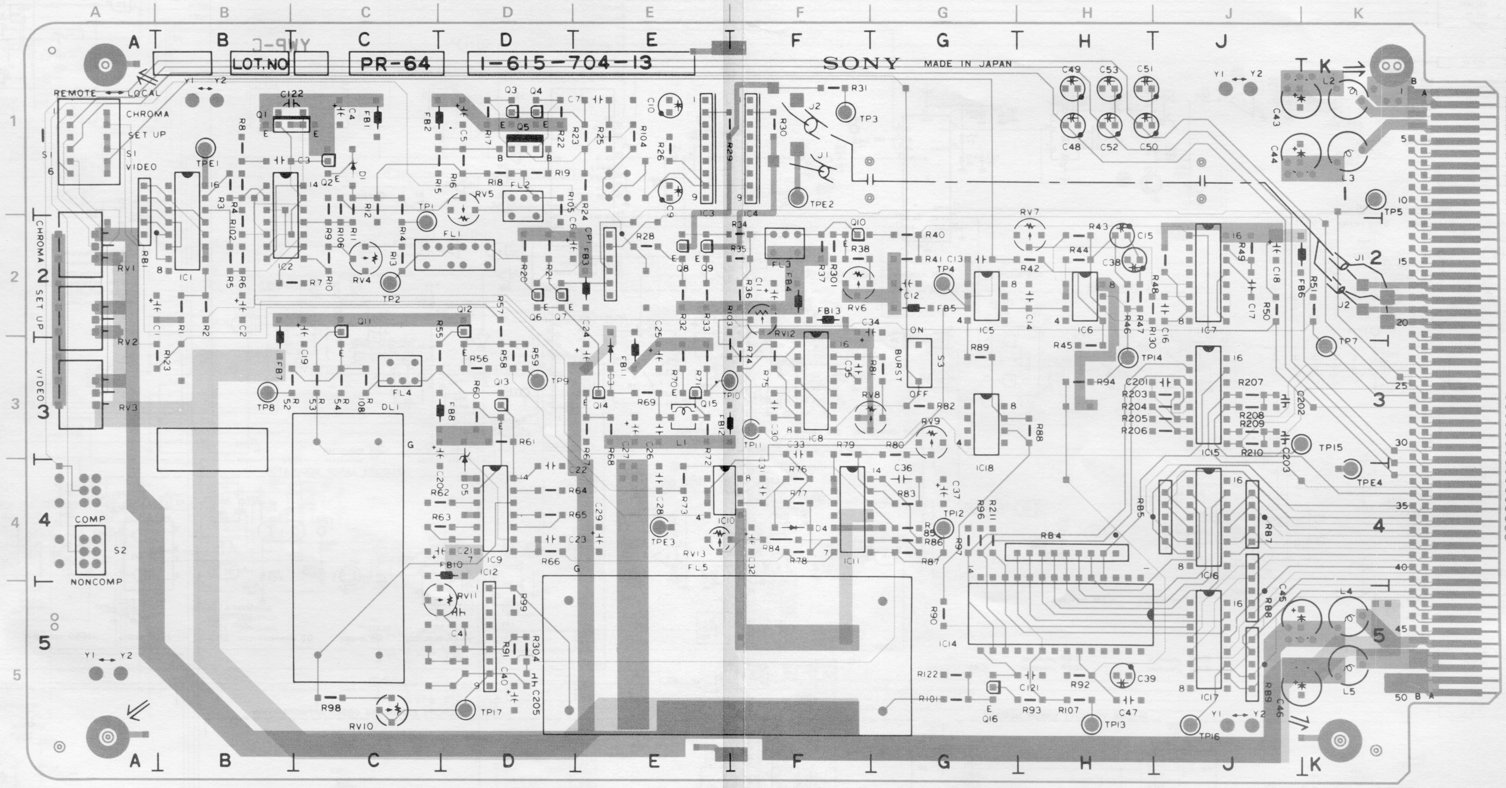
IC5A	
IC5B	
IC5C	
IC5D	
IC5E	
IC5G	
IC5H	
IC5L	
IC5P	
IC5R	
IC5S	
IC5T	
LV1	1S
Q1	3F
Q2	2K
Q3	2J
Q4	4G
Q5	4H
Q6	5J
Q7	5J
Q8	4G
Q101	1B
Q102	1B
Q103	1B
Q201	1C
RB1	2U
RB2	3U
RB3	3U
RV1	1P
RV2	2A
RV3	2A
RV4	3A
RV5	3A
RV6	2H
RV7	3G
RV8	3Q
RV9	4H
RV10	4T
RV11	5A
RV12	4F
RV13	4G
RV14	4K
RV15	1A
S1	4S
S2	1A
S3	3S
S4	3S
S5	4A
S6	1S
TP1	2C
TP2	2G
TP3	3H
TP4	1S
TP5	3U
TP6	4G
TP7	4J
TP8	5N
TP9	4B
TP10	2C
TP11	4D
TP12	1B
TP13	1B
TP14	5D
TP15	2K
TPE1	2F
TPE2	1Q
TPE3	3D
TPE4	3N
VCO1	1L
VCO2	3J


SG-10 BOARD
Sync Generator
Read Clock Generator
SYNC PHASE CONTROL
SYNC GENERATOR
VOLTAGE REGULATOR
SC GENERATOR
HUE CONTROL
VELOCITY ERROR MODULATOR
READ CLOCK GENERATOR
REF V, Y ADD INH GENERATOR
V BLANKING PULSE GENERATOR
16-LINE VELOCITY ERROR MEMORY
VELOCITY ERROR 2nd ORDER APPROXIMATION
READ ZERO GENERATOR
SG-10 BOARD
BOARD NO. 1-615-703-12 & UP
BKH-2150(J/U/C)(#10501~

PR-64 BOARD (1-615-704-13)

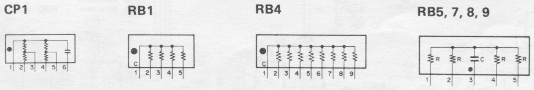
Component Side





■ 1-615-704-13 COMPONENT SIDE

■ 1-615-704-13 SOLDER SIDE

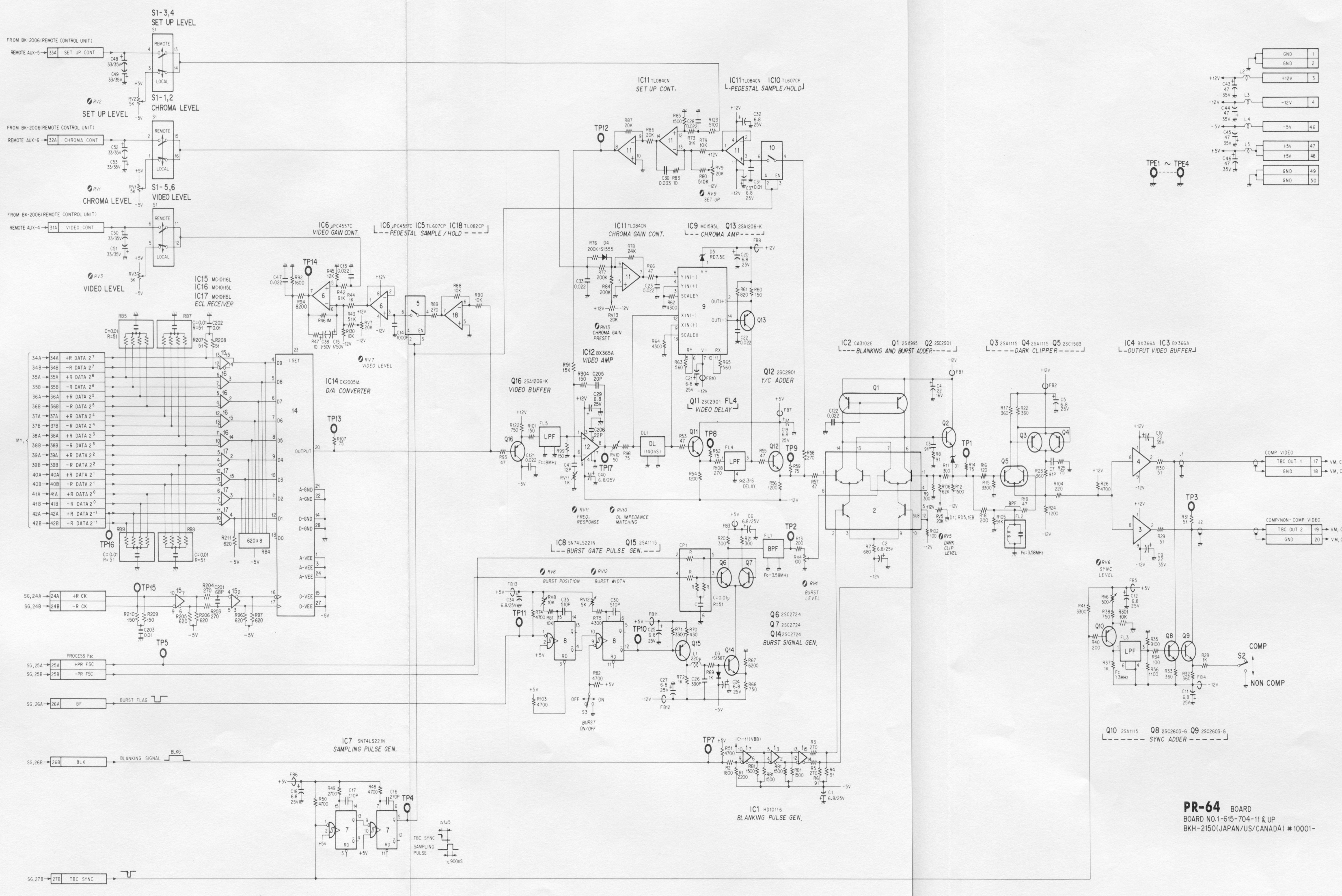


PR-64 (1-615-704-13 & UP)

BKH-2150(J,U/C)

CP1	2E
D1	1C
D3	3E
D4	4F
D5	4D
D6	3B
DL1	4C
FL1	2D
FL2	1D
FL3	2F
FL4	3C
FL5	5E
IC1	2B
IC2	2B
IC3	1E
IC4	1F
IC5	2G
IC6	2H
IC7	2J
IC8	3F
IC9	4D
IC10	4E
IC11	4F
IC12	5D
IC14	5H
IC15	3J
IC16	4J
IC17	5J
IC18	3G
Q1	1C
Q2	1C
Q3	1D
Q4	1D
Q5	1D
Q6	2D
Q7	2D
Q8	2E
Q9	2E
Q10	2F
Q11	2C
Q12	2D
Q13	3D
Q14	3E
Q15	3E
Q16	5G

RB1	2A
RB4	4H
RB5	4J
RB7	4J
RB8	5J
RB9	5J
RV1	2A
RV2	2A
RV3	3A
RV4	2C
RV5	1D
RV6	2F
RV7	2H
RV8	3F
RV9	3G
RV10	5C
RV11	5D
RV12	2F
RV13	4E
S1	1A
S2	4A
S3	3G
TP1	2C
TP2	2C
TP3	1F
TP4	2G
TP5	1K
TP7	3K
TP8	3B
TP9	3D
TP10	3E
TP11	3F
TP12	4G
TP13	5H
TP14	3H
TP15	3J
TP16	5J
TP17	5D
TPE1	1B
TPE2	1F
TPE3	4E
TPE4	4K

PR-64 BOARD

D/A Converter
Processor